Dc3 Digital Forensics CHALLENGE

102 – HASH ANALYSIS

TEAM INFORMATION	
Team Name:	Barely Legal
Results Email:	▮▮▮▮▮▮▮▮▮▮
Examination Time Frame:	to 10/31/08

INSTRUCTIONS

Description: Compare the MD5 hash value of the files located in the main folder **102_Hash_ Analysis_ Challenge2008** subfolders 'Files_From_Hard_Drive', 'Files_From_USB1', 'Files_From_USB2', and 'Files_From_USB3', to determine which files are exactly the same in each of those separate folders. Report the folder, filename, and MD5 hash value for matching files and a detailed explanation of your process (software or technique) used to examine and determine your results.

Report the exact registry key path, any additional entry information, the detailed explanation of your process (software or technique) used to examine and detect the information

Total Weighted Points: 20 Total Points available per entry – Total 100 Points Available

1. **Answers** – Fill in the chart below with your findings. *As a Forensic Challenge, consider that your answers will have to have enough detail for the Findings and Methodology of your examination to satisfy questioning in a court of law.*

2. **Methodology** – Provide a meticulously detailed explanation of your process. Be sure to include a step action that our reviewers can follow to reproduce your work for authenticity including tools and techniques.

INTERNAL REVIEWER USE ONLY				
Reviewer:			Points Awarded:	
Date:			Review Period:	to
Completed:	☐ Yes	☐ No	☐ Partial	

REPORT OF EXAMINATION

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The following files contained matching MD5 Hash values:

Folder "Files_From_Hard_Drive"

```
    Filename      Hash Value
    a1.JPG        0bab561444f39ff6129acd2ee07733eb
    a2.JPG        0bab561444f39ff6129acd2ee07733eb

    f1.JPG        294889d9f8d246eecac8ffdb7eeb3796
    f2.JPG        294889d9f8d246eecac8ffdb7eeb3796

    k1.JPG        3c1ce3c42281b10c45f9129ede4de242
    k3.JPG        3c1ce3c42281b10c45f9129ede4de242

    b1.JPG        5a369015e52a858990af0f3bb137db40
    b3.JPG        5a369015e52a858990af0f3bb137db40

    c1.JPG        5b47cb5c2521c78b617a16feab1bf7c3
    c2.JPG        5b47cb5c2521c78b617a16feab1bf7c3

    h1.JPG        851fb65c98bb61ead9f25be37c56c4c4
    h2.JPG        851fb65c98bb61ead9f25be37c56c4c4

    d2.JPG        947207cd5dc0572d404d5af2645f62b0
    d3.JPG        947207cd5dc0572d404d5af2645f62b0

    e1.JPG        b34fd5973f9229e999ef64577aff69a3
    e2.JPG        b34fd5973f9229e999ef64577aff69a3

    g1.JPG        c77e9a7f11dc251fb4e533d83af14a75
    g3.JPG        c77e9a7f11dc251fb4e533d83af14a75

    j1.JPG        e1d0d8e3143a7927d8fb5a54f73e9f00
    j3.JPG        e1d0d8e3143a7927d8fb5a54f73e9f00
```

Folder "Files_From_USB2"

```
    Filename Hash Value

    112.JPG       851fb65c98bb61ead9f25be37c56c4c4
    279.JPG       851fb65c98bb61ead9f25be37c56c4c4
```

In addition, the following files had matching MD5 Hash Values in different folders

File Path   Hash Value

Hard_Drive\a1.JPG   0bab561444f39ff6129acd2ee07733eb
Hard_Drive\a2.JPG   0bab561444f39ff6129acd2ee07733eb
USB2\238.JPG   0bab561444f39ff6129acd2ee07733eb

Hard_Drive\f1.JPG   294889d9f8d246eecac8ffdb7eeb3796
Hard_Drive\f2.JPG   294889d9f8d246eecac8ffdb7eeb3796
USB2\100.JPG   294889d9f8d246eecac8ffdb7eeb3796

METHODOLOGY / NOTES FORM

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Date / Time	Notes
10-Oct-08 12:30 pm	Tool(s) Used: EnCase 6.11.2 by Guidance Software (www.encase.com) Created new case in EnCase. Imported all files in the HD, USB1, USB2, and USB3 folders into EnCase as Single Files. Computed Hash Values of all files (via Search dialog, selecting "Compute Hash Values") Sorted results by Hash Value, compared results and reported matching Hash Values.